



PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

#4
7-3-02

In re Application of:
Albert D. Edgar

By the Examiner:
Not Assigned

Serial No.: 09/777394

Group Art Unit:

Filed: February 5, 2001

Title: METHOD, SYSTEM AND SOFTWARE
FOR SIGNAL PROCESSING USING
PYRAMIDAL DECOMPOSITION

Assistant Commissioner for Patents
Washington, D.C. 20231

<p align="center">CERTIFICATE OF MAILING</p> <p>Date of Mailing: <u>September 7, 2001</u></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Services as first class mail in an envelope addressed to:</p> <p>Assistant Commissioner for Patents Washington, D.C. 20231</p> <p>Martha Rocha Print Name <i>Martha Rocha</i> Signature</p>
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Dear Sir:

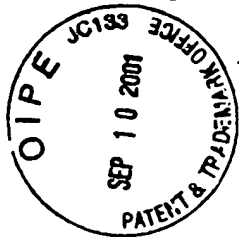
INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith patents, publications or other information of which he is aware, which he believes may be material to the patentability of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g) the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists.

The attached form, PTO-1449, provides a listing of patents, publications, or other information as required by 37 CFR 1.98(a)(1).



A copy of each of these items on PTO-1449 is supplied herewith.

Respectfully submitted,
Albert D. Edgar

By:

A handwritten signature in dark ink, appearing to be "Raymond M. Galasso", written over a horizontal line.

Raymond M. Galasso
Reg. No. 37,832

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FORM PTO-1449

ATTY.
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ASF99318

SERIAL NO. 09/777394

LIST OF PATENTS AND PUBLICATIONS

APPLICANT

Albert D. Edgar

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DISCLOSURE STATEMENT

FOR: METHOD, SYSTEM AND SOFTWARE FOR SIGNAL
PROCESSING USING PYRAMIDAL
DECOMPOSITION

UNITED STATES LETTERS PATENT

DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
2 4 0 4 1 3 8	Oct. 6, 1941	Mayer, A.L.	95	94
3 5 2 0 6 8 9	Jul. 14, 1970	Nagae et al.	96	55
3 5 2 0 6 9 0	Jul. 14, 1970	Nagae et al.	96	55
3 5 8 7 4 3 5	Jun. 28, 1971	Chioffe	95	89
3 6 1 5 4 7 9	Oct. 26, 1971	Kohler et al.	96	48
3 6 1 5 4 9 8	Oct. 26, 1971	Aral	96	55
3 6 1 7 2 8 2	Nov. 2, 1971	Bard	96	59
3 7 4 7 1 2 0	Jul 17, 1973	Stemme	346	75
3 9 0 3 5 4 1	Sep. 2, 1975	Von Meister et al.	354	317
3 9 4 6 3 9 8	Mar 23, 1976	Kyser et al.	346	1
3 9 5 9 0 4 8	May 25, 1976	Stanfield et al.	156	94
4 0 2 6 7 5 6	May 31, 1977	Stanfield et al.	156	554
4 0 8 1 5 7 7	Mar. 28, 1978	Horner	427	424
4 1 4 2 1 0 7	Feb. 27, 1979	Hatzakis et al.	250	571
4 2 1 5 9 2 7	Aug. 5, 1980	Grant et al.	354	317
4 2 4 9 9 8 5	Feb. 10, 1981	Stanfield	156	554
4 3 0 1 4 6 9	Nov. 17, 1981	Modeen et al.	358	75
4 4 9 0 7 2 9	Dec. 25, 1984	Clark et al.	346	75
4 5 0 1 4 8 0	Feb. 26, 1985	Matsui et al.	354	298

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
WO 90/01240	Feb. 8, 1990	PCT	H04N	1/40
WO 91/09493	Jun. 27, 1991	PCT	H04N	5/217
WO 97/25652	Jul. 17, 1997	PCT	G03D	5/00
WO 98/19216	May 7, 1998	PCT	G03C	5/29
WO 98/25399	Jun. 11, 1998	PCT	H04N	1/38
WO 98/31142	Jul. 16, 1998	PCT	H04N	5/253
WO 98/34157	Aug. 6, 1998	PCT	G03D	

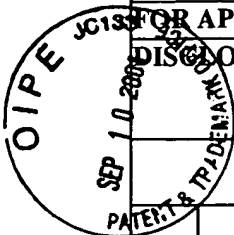
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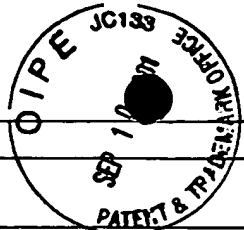
	"Adaptive Fourier Threshold Filtering: A Method to Reduce Noise and Incoherent Artifacts in High Resolution Cardiac Images", Doyle, M., et al., 8306 Magnetic Resonance in Medicine 31, No. 5, Baltimore, MD, May, pp. 546-550, 1994.
	"Anisotropic Spectral Magnitude Estimation Filters for Noise Reduction and Image Enhancement", Aich, T., et al., Philips GmbH Research Laboratories, IEEE, pp. 335-338, 1996.
	"Adaptive-neighborhood filtering of images corrupted by signal-dependent noise", Rangayyan, R., et al., Applied Optics, Vol. 37, No. 20, pp. 4477-4487, July 10, 1998.
	"Grayscale Characteristics", The Nature of Color Images, Photographic Negatives, pp. 163-168.
	"Parallel Production of Oligonucleotide Arrays Using Membranes and Reagent Jet Printing", Stimpson, D., et al., Research Reports, BioTechniques, Vol. 25, No. 5, pp. 886-890, 1998.
	"Low-Cost Display Assembly and Interconnect Using Ink-Jet Printing Technology", Hayes, D. et al., Display Works '99, MicroFab Technologies, Inc., pp. 1-4, 1999.
	"Ink-Jet Based Fluid Microdispensing in Biochemical Applications", Wallace, D., MicroFab Technologies, Inc., Laboratory Automation News, Vol. 1, No. 5, pp. 6-9, Nov., 1996.

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





PTO FORM 4/92	Page 2 of 1				
FORM PTO-1449	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ATTY. DOCKET</td> <td style="width: 20%;">ASF99318</td> <td style="width: 20%;">SERIAL NO.</td> <td style="width: 40%;">09/777394</td> </tr> </table>	ATTY. DOCKET	ASF99318	SERIAL NO.	09/777394
ATTY. DOCKET	ASF99318	SERIAL NO.	09/777394		

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">APPLICANT</td> <td colspan="3">Albert D. Edgar</td> </tr> <tr> <td style="width: 20%;">FILING DATE</td> <td style="width: 20%;">February 5, 2001</td> <td style="width: 20%;">GROUP</td> <td></td> </tr> </table>	APPLICANT	Albert D. Edgar			FILING DATE	February 5, 2001	GROUP	
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DISCLOSURE STATEMENT	FOR: METHOD, SYSTEM AND SOFTWARE FOR SIGNAL PROCESSING USING PYRAMIDAL DECOMPOSITION								

UNITED STATES LETTERS PATENT

		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		4	5	6	4	2	8	0	Jan. 14, 1986	Fukuda	354	317
		4	5	9	4	5	9	8	Jun. 10, 1986	Iwagami	346	140
		4	6	2	1	0	3	7	Nov. 4, 1986	Kanda et al.	430	30
		4	6	2	3	2	3	6	Nov. 18, 1986	Stella	354	318
		4	6	3	6	8	0	8	Jan. 13, 1987	Herron	346	75
		4	6	6	6	3	0	7	May 19, 1987	Matsumoto et al.	356	404
		4	6	7	0	7	7	9	Jun 2, 1987	Nagano	358	75
		4	7	3	6	2	2	1	Apr. 5, 1988	Shidara	354	317
		4	7	4	5	0	4	0	May 17, 1988	Levine	430	21
		4	7	5	5	8	4	4	Jul. 5, 1988	Tsuchiya et al.	354	317
		4	7	7	7	1	0	2	Oct. 11, 1988	Levine	430	21
		4	7	9	6	0	6	1	Jan. 3, 1989	Ikeda et al.	355	73
		4	8	1	4	6	3	0	Mar. 21, 1989	Lim	250	578
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		4	8	4	5	5	5	1	Jul. 4, 1989	Matsumoto	358	80
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		4	8	7	5	0	6	7	Oct. 17, 1989	Kanzaki et al.	354	325
		4	9	6	9	0	4	5	Nov. 6, 1990	Haruki et al.	358	228

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DOCUMENT NUMBER									DATE	COUNTRY	CLASS	SUB CLASS
WO 98/34397									Aug. 6, 1998	PCT	H04N	
WO 99/43148									Aug. 26, 1999	PCT	H04N	1/00
WO 01/01197									Jan. 4, 2001	PCT	G03D	5/00
WO 01/13174 A1									Feb. 22, 2001	PCT	G03D	5/06
EP 0 261 782 A2									Aug. 14, 1987	Europe	H04N	1/46
EP 0 422 220 A1									Mar. 28, 1989	Europe	A61B	6/03
EP 0 482 790 B1									Sep. 9, 1991	Europe	H04N	1/40
EP 0 525 886 A3									Jul. 21, 1992	Europe	G03D	5/00
EP 0 580 293 A1									Jun. 22, 1993	Europe	H04N	1/04
EP 0 669 753 A2									Feb. 24, 1995	Europe	H04N	1/407

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

		<i>"Protorealistic Ink-Jet Printing Through Dynamic Spot Size Control"</i> , Wallace, D., Journal of Imaging Science and Technology, Vol. 40, No. 5, pp. 390-395, Sept/Oct. 1996.
		<i>"MicroJet Printing of Solder and Polymers for Multi-Chip Modules and Chip-Scale Package"</i> , Hayes, D., et al., MicroFab Technologies, Inc.
		<i>"A Method of Characterisssits Model of a Drop-on-Demand Ink-Jet Device Using an Integral Method Drop Formation Model"</i> , Wallace, D., MicroFab Technologies, Inc., The American Society of Mechanical Engineers, Winter Annual Meeting, pp. 1-9, Dec. 10-15, 1989.
		<i>"Digital Imaging Equipment White Papers"</i> , Putting Damaged Film on ICE, www.nikonusa.com/reference/whitepapers/imaging , Nikon Corporation, Nov. 28, 2000.

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		4	9	9	4	9	1	8	Feb. 19, 1991	Lingemann	358	214
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		5	1	2	4	2	1	6	Jun. 23, 1992	Giapis et al.	430	30
		5	1	5	5	5	9	6	Oct. 13, 1992	Kurtz et al.	358	214
		5	1	9	6	2	8	5	Mar. 23, 1993	Thomson	430	30
		5	2	1	2	5	1	2	May 18, 1993	Shiota	354	319
		5	2	3	1	4	3	9	Jul. 27, 1993	Takahashi et al.	354	313
		5	2	3	5	3	5	2	Aug. 10, 1993	Pies et al.	346	140
		5	2	5	5	4	0	8	Oct. 26, 1993	Blackman	15	308
		5	2	6	6	8	0	5	Nov. 30, 1993	Edgar	250	330
		5	2	6	7	0	3	0	Nov. 30, 1993	Giorgianni et al.	358	527
		5	2	9	2	6	0	5	Mar. 8, 1994	Thomson	430	30
		5	2	9	6	9	2	3	Mar. 22, 1994	Hung	358	527
		5	3	5	0	6	5	1	Sep. 27, 1994	Evans et al.	430	21
		5	3	5	0	6	6	4	Sep. 27, 1994	Simons	430	362
		5	3	5	7	3	0	7	Oct. 18, 1994	Glanville et al.	354	324
		5	3	6	0	7	0	1	Nov. 1, 1994	Elton et al.	430	501
		5	3	7	1	5	4	2	Dec. 6, 1994	Pauli et al.	348	262

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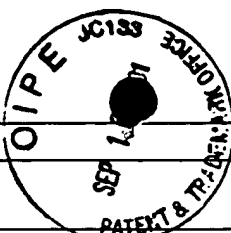
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		EP 0 794 454 A2							Feb. 28, 1997	Europe	G03B	27/73
		EP 0 930 498 A2							Dec. 21, 1998	Europe	G01N	21/88

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		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		5	3	9	1	4	4	3	Feb. 21, 1995	Simons et al.	430	21
		5	4	1	4	7	7	9	May 9, 1995	Mitch	382	199
		5	4	1	6	5	5	0	May 16, 1995	Skye et al.	354	298
		5	4	1	8	1	1	9	May 23, 1995	Simons	430	507
		5	4	1	8	5	9	7	May 23, 1995	Lahcanski et al.	355	76
		5	4	3	2	5	7	9	Jul. 11, 1995	Tokuda	354	293
		5	4	3	6	7	3	8	Jul. 25, 1995	Manico	358	503
		5	4	4	0	3	6	5	Aug. 8, 1995	Gates et al.	354	298
		5	4	4	7	8	1	1	Sep. 5, 1995	Buhr et al.	430	20
		5	4	4	8	3	8	0	Sep. 5, 1995	Park	358	520
		5	4	5	2	0	1	8	Sep. 19, 1995	Capitant et al.	348	651
		5	4	6	5	1	5	5	Nov. 7, 1995	Edgar	358	500
		5	5	1	6	6	0	8	May 14, 1996	Hobbs et al.	430	30
		5	5	4	6	4	7	7	Aug. 13, 1996	Knowles et al.	382	242
		5	4	9	6	6	6	9	Mar. 5, 1996	Pforr et al.	430	22
		5	5	5	0	5	6	6	Aug. 27, 1996	Hodgson et al.	345	202
		5	5	1	9	5	1	0	May 21, 1996	Edgar	358	471
		5	5	5	2	9	0	4	Sep. 3, 1996	Ryoo et al.	358	518
		5	5	6	3	7	1	7	Oct. 8, 1996	Koeng et al.	358	406

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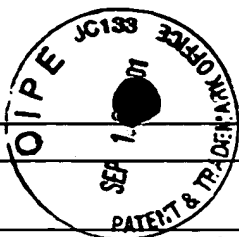
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		5	5	6	8	2	7	0	Oct. 22, 1996	Endo	358	298
		5	5	7	6	8	3	6	Nov. 19, 1996	Sano et al.	358	302
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		5	5	9	6	4	1	5	Jan. 21, 1997	Cosgrove et al.	358	296
		5	6	2	7	0	1	6	May 6, 1997	Manico	430	434
		5	6	6	4	2	5	3	Sep. 2, 1997	Mevers	396	603
		5	6	6	4	2	5	5	Sep. 2, 1997	Wen	396	627
		5	6	6	7	9	4	4	Sep. 16, 1997	Reem et al.	430	359
		5	6	7	8	1	1	6	Oct. 14, 1997	Sugimoto et al.	396	611
		5	6	9	1	1	1	8	Nov. 25, 1997	Haye	430	357
		5	6	9	5	9	1	4	Dec. 9, 1997	Simon et al.	430	379
		5	6	9	8	3	8	2	Dec. 16, 1997	Nakahanada et al.	430	418
		5	7	2	6	7	7	3	Mar. 10, 1998	Mehlo et al.	358	474
		5	7	3	9	8	9	7	Apr. 14, 1998	Frick et al.	355	40
		5	7	7	1	1	0	7	Jun. 23, 1998	Fujimoto et al.	358	464
		5	7	9	0	2	7	7	Aug. 4, 1998	Edgar	358	487
		5	8	3	5	8	1	1	Nov. 10, 1998	Tsumura	396	598
		5	8	7	0	1	7	2	Feb. 9, 1999	Blume	355	27
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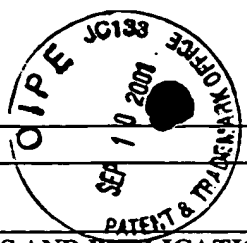
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		5	8	9	2	5	9	5	Apr. 6, 1999	Yamakawa et al.	358	530
		5	9	3	0	3	8	8	Jul. 27, 1999	Murakami et al.	382	167
		5	9	6	3	6	6	2	Oct. 5, 1999	Vachtsevanos et al.	382	150
		5	9	6	6	4	6	5	Oct. 12, 1999	Keith et al.	382	232
		5	9	7	9	0	1	1	Nov. 9, 1999	Miyawaki et al.	15	308
		5	9	8	2	9	3	6	Nov. 9, 1999	Tucker et al.	382	233
		5	9	8	2	9	3	7	Nov. 9, 1999	Accad	382	239
		5	9	8	2	9	4	1	Nov. 9, 1999	Loveridge et al.	382	260
		5	9	8	2	9	5	1	Nov. 9, 1999	Katayama et al.	382	284
		5	9	8	8	8	9	6	Nov. 23, 1999	Edgar	396	604
		5	9	9	1	4	4	4	Nov. 23, 1999	Burt et al.	382	232
		5	9	9	8	1	0	9	Dec. 7, 1999	Hirabayashi	430	434
		6	0	0	0	2	8	4	Dec. 14, 1999	Shin et al.	73	150
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		6	0	6	5	8	2	4	May 23, 2000	Bullock et al.	347	19
		6	0	6	9	7	1	4	May 30, 2000	Edgar	358	487
		6	0	8	9	6	8	7	Jul. 18, 2000	Helterline	347	7
		6	1	0	1	2	7	3	Aug. 8, 2000	Matama	382	169
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		6	1	3	7	9	6	5	Oct. 24, 2000	Burgeios et al.	396	626

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